Listing of the Claims

1. (Currently Amended) An isolated polynucleotide ~~comprising a polynucleotide sequence~~ selected from the group consisting of:

a) a a polynucleotide comprising the [[a]] polynucleotide sequence ~~selected from the group consisting~~ of SEQ ID NO:[[1-25]]23,

b) a polynucleotide comprising a naturally occurring polynucleotide sequence ~~having~~ at least 90% ~~sequence identity~~ identical to [[a]] the polynucleotide sequence ~~sequence selected from the group consisting~~ of SEQ ID: [[1-25]]23,

c) a polynucleotide ~~sequence~~ complementary to a),

d) a polynucleotide ~~sequence~~ complementary to b), and

e) an RNA equivalent of a) through d).

2. (Currently Amended) An isolated polynucleotide of claim 1, comprising the[[a]] polynucleotide sequence ~~selected from the group consisting~~ of SEQ ID NO:[[1-25]]23.

3. (Original) An isolated polynucleotide comprising at least 60 contiguous nucleotides of a polynucleotide of claim 1.

4. (Original) A composition for the detection of expression of disease detection and treatment molecule polynucleotides comprising at least one of the polynucleotides of claim 1 and a detectable label.

5. (Original) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 1, the method comprising:

a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and

b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.

6. (Original) A method for detecting a target polynucleotide in a sample, said target polynucleotide comprising a sequence of a polynucleotide of claim 1, the method comprising:

a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and

b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

7. (Currently Amended) A method of claim [[5]]6, wherein the probe comprises at least 30 contiguous nucleotides.

8. (Currently Amended) A method of claim [[5]]6, wherein the probe comprises at least 60 contiguous nucleotides.

9. (Original) A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 1.

10. (Original) A cell transformed with a recombinant polynucleotide of claim 9.

11. (Cancelled)

12. (Original) A method for producing a disease detection and treatment molecule polypeptide, the method comprising:

a) culturing a cell under conditions suitable for expression of the disease detection and treatment molecule polypeptide, wherein said cell is transformed with a recombinant polynucleotide of claim 9, and

b) recovering the disease detection and treatment molecule polypeptide so expressed.

13. (Original) A purified disease detection and treatment molecule polypeptide encoded by at least one of the polynucleotides of claim 2.

14. (Original) An isolated antibody which specifically binds to a disease detection and treatment molecule polypeptide of claim 13.

15. (Currently Amended) A method of identifying a test compound which specifically binds to the disease detection and treatment molecule polypeptide of claim 13, the method comprising ~~the steps of~~:

a) providing a test compound;

b) combining the disease detection and treatment molecule polypeptide with the test compound for a sufficient time and under suitable conditions for binding; and

c) detecting binding of the disease detection and treatment molecule polypeptide to the test compound, thereby identifying the test compound which specifically binds the disease detection and treatment molecule polypeptide.

16. (Original) A microarray wherein at least one element of the microarray is a polynucleotide of claim 3.

17. (Currently Amended) A method for generating a transcript image of a sample which contains polynucleotides, the method comprising ~~the steps of~~:

a) labeling the polynucleotides of the sample,

b) contacting the elements of the microarray of claim 16 with the labeled polynucleotides of the sample under conditions suitable for the formation of a hybridization complex, and

c) quantifying the expression of the polynucleotides in the sample.

18. (Amended) A method for screening a compound for effectiveness in altering expression of a target polynucleotide, wherein said target polynucleotide comprises a polynucleotide sequence of claim 1, the method comprising:

a) exposing a sample comprising the target polynucleotide to a compound, under

conditions suitable for the expression of the target polynucleotide, and

b) detecting altered expression of the target polynucleotide.; and

c) comparing the expression of the target polynucleotide in the presence of varying amounts of the compound and in the absence of the compound.

19. (Original) A method for assessing toxicity of a test compound, said method comprising:

a) treating a biological sample containing nucleic acids with the test compound;

b) hybridizing the nucleic acids of the treated biological sample with a probe comprising at least 20 contiguous nucleotides of a polynucleotide of claim 1 under conditions whereby a specific hybridization complex is formed between said probe and a target polynucleotide in the biological sample, said target polynucleotide comprising a polynucleotide sequence of a polynucleotide of claim 1 or fragment thereof;

c) quantifying the amount of hybridization complex; and

d) comparing the amount of hybridization complex in the treated biological sample with the amount of hybridization complex in an untreated biological sample, wherein a difference in the amount of hybridization complex in the treated biological sample is indicative of toxicity of the test compound.

20. (New) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 1, the method comprising:

a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and

b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.